CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/BTS/WMM/Gradation/2014-15

28.

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. B.T. Surendra,**
No.1606/29, 7th A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.

Name of Work : Improvements to Roads and Drain at cross roads of Munikondappa Layout in 1st Mai Shivaram House in Ward No.14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015

Date of Testing : 28.04.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **2530**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Li
53	0	0	0	100	100
45	965	965	3.8	96.2	95-10
22.4	4580	5545	21.9	78.1	60-8
11.2	5630	11175	44.2	55.8	40-6
4.75	4185	15360	60.7	39.3	25-4
2.36	3470	18830	74.4	25.6	15-3
0.600	2645	21475	84.9	15.1	8-22
0.075	2480	23955	94.7	5.3	0-8

Note:

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VISHWANATH .
Quality Manage

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

Job No.: CTCE/BBMP/W.No.14/BTS/CSR.4/804d/CUBE/2015-16 20.

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUB

* Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Ban
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7th A Cross, 7th Main, Govindaraja Nagara, Bangalore – 079.
* Name of the work	: Improvements to Roads and Drain at cross roads of Munikondappa in 1st Main Shivaram House in Ward No.14, Bagalagunte, BBMP, Ban
* Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 22.04.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive st (N/mm^2)
1	22.04.2015	20.05.2015	8.294	363.5	16.16
2	22.04.2015	20.05.2015	8.375	378.4	16.82
3	22.04.2015	20.05.2015	8.462	389.6	17.32

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ಪೂರ್ವ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು -560 073

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Job No.: CTCE/BBMP/W.No.14/BTS/CSR.4/804d/CC Solid Block/2015-16 : 08.04.2

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalo
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7th A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.
* Name of the Work	: Improvements to Roads and Drain at cross roads of Munikondappa La in 1st Main Shivaram House in Ward No.14, Bagalagunte, BBMP, Bangalo
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015
Sample Received on	: 01.04.2015
Date of Testing	: 08.04.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) 2005
1	Block 1	35.23	261.2	3.27	
2	Block 2	36.74	263.8	3.30	
3	Block 3	35.62	265.7	3.32	Minimum requir
4	Block 4	34.96	263.9	3.30	Compressive Stre
5	Block 5	35.85	262.5	3.28	of Individual Un
6	Block 6	36.25	264.7	3.31	3.20 N/mm^2
7	Block 7	34.87	262.5	3.28	
8	Block 8	35.63	261.9	3.27	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.14/BTS/CSR.4/804d/AGG/GR/2015-16 : 04.04.

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7th A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 0
* Name of Work	: Improvements to Roads and Drain at cross roads of Munikondappa Layout 1st Main Shivaram House in Ward No.14, Bagalagunte, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 01.04.2015
Date of Testing	: 04.04.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.74	95-100	85-100
20	50.92	30-70	0-20
10	24.58	10-35	0-5
4.75	2.40	0-5	-

Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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VISHWANATH .C

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Job No.: CTCE/BBMP/W.No.14/BTS/CSR.4/804d/SAND-Gradation/2015-16 : 04.

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7th A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.
* Name of Work	: Improvements to Roads and Drain at cross roads of Munikondappa Layout in Main Shivaram House in Ward No.14, Bagalagunte, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/1DSD/PR/2015-16 Dated: 01.04.2015
Technical Reference	: IS : 2386 Part 1 – 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 01.04.2015
Date of Testing	: 04.04.2015

Total Wt. of Aggregates in gms 100

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone
10	100	100	100	100	10
4.75	93.46	90-100	90-100	90-100	95-1
2.36	80.22	60-95	75-100	85-100	95-1
1.18	57.33	30-70	55-90	75-100	90-1
600 Micron	26.10	15-34	35-59	60-79	80-1
300 Micron	13.63	5-20	8-30	12-40	15-
150 Micron	5.07	0-10	0-10	0-10	0-1

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VISHWANATH .C
Quality Manager

CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/W.No.14/BTS/CSR.4/804d/CEMENT/2015-16 Date: 04.04.201

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBM Bangalore.
*AGENCY	:	**Mr. B.T. Surendra,** No.1606/29, 7th A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.
*NAME OF THE WORK	:	Improvements to Roads and Drain at cross roads Munikondappa Layout in 1st Main Shivaram House in W No.14, Bagalagunte, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	01.04.2015
PERIOD OF TESTING	:	01.04.2015 to 04.04.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

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VISHWANATH .C
Quality Manager

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